

D15-A

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## Advance-Devops Experiment no:8

Step 1: Open Windows PowerShell and run the following command – docker run -d --name sonarqube-test1 -e SONAR\_ES\_BOOTSTRAP\_CHECKS\_DISABLE=true -p 9000:9000 sonarqube:latest

```
erShell does not load commands from the current location by default. If you trust this command, instead type: ".\sonar-scanner.bat". See "get-help about_Command_Precedence" for more details.
PS C:\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin> .\sonar-scanner.bat
11:02:02.120 INFO Scanner configuration file: C:\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin\..\conf\sonar-scanner.properties
11:02:02.124 INFO Project root configuration file: NONE
11:02:02.140 INFO SonarScanner CLI 6.2.0.4584
11:02:02.142 INFO Java 17.0.12 Eclipse Adoptium (64-bit)
11:02:02.142 INFO Windows 11 10.0 amd64
11:02:02.160 INFO User cache: C:\Users\navan\.sonar\cache
11:02:02.644 INFO JRE provisioning: os[windows], arch[amd64]
11:02:06.241 INFO EXECUTION FAILURE
11:02:06.243 INFO Total time: 4.126s
11:02:06.244 ERROR Error during SonarScanner CLI execution
java.lang.IllegalStateException: Error status returned by url [https://api.sonarcloud.io/analysis/jres?os=windows&arch=amd64]: 401
    at org.sonarsource.scanner.lib.internal.http.ServerConnection.callUrl(ServerConnection.java:182)
    at org.sonarsource.scanner.lib.internal.http.ServerConnection.callApi(ServerConnection.java:145)
    at org.sonarsource.scanner.lib.internal.http.ServerConnection.callRestApi(ServerConnection.java:123)
    at org.sonarsource.scanner.lib.internal.JavaRunnerFactory.getJreMetadata(JavaRunnerFactory.java:159)
    at org.sonarsource.scanner.lib.internal.JavaRunnerFactory.getJreFromServer(JavaRunnerFactory.java:138)
    at org.sonarsource.scanner.lib.internal.JavaRunnerFactory.createRunner(JavaRunnerFactory.java:85)
    at org.sonarsource.scanner.lib.internal.ScannerEngineLauncherFactory.createLauncher(ScannerEngineLauncherFactory.java:53)
    at org.sonarsource.scanner.lib.ScannerEngineBootstrapper.bootstrap(ScannerEngineBootstrapper.java:118)
    at org.sonarsource.scanner.cli.Main.analyze(Main.java:75)
    at org.sonarsource.scanner.cli.Main.main(Main.java:63)
11:02:06.246 ERROR Re-run SonarScanner CLI using the -X switch to enable full debug logging.
PS C:\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin> |
```


- Login to SonarQube using username admin and password admin.
- Create a manual project in SonarQube with the name sonarqube-test1




Dashboard > All >

Enter an item name


= Required field




**Freestyle project**  
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.



**Maven project**  
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.



**Pipeline**  
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.



**Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

OK

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a

Step2: go to the jenkins and create new item select pipeline:

Under Pipeline Script, enter the following -

node {

```
    stage('Cloning the GitHub Repo') {  
        git 'https://github.com/shazforiot/GOL.git'  
    }
```

stage('SonarQube analysis') {

```
    withSonarQubeEnv('sonarqube') {  
        sh "<PATH_TO_SONARQUBE_FOLDER>/bin//sonar-scanner \  
        -D sonar.login=<SonarQube_USERNAME> \  
        -D sonar.password=<SonarQube_PASSWORD> \  
        -D sonar.projectKey=<Project_KEY> \  
        -D sonar.exclusions=vendor/**,resources/**,*/*.java \  
        -D sonar.host.url=http://127.0.0.1:9000/"  
    }
```

```
}
```

}



Dashboard > SonarQube Pipeline > Configuration

## Configure

General

Advanced Project Options

Pipeline

### Pipeline

Definition

Pipeline script

Script ?

```
1 -> node {  
2 ->   stage('Cloning the Github Repo') {  
3 ->     git 'https://github.com/shazforiot/MSBuild-FirstProject.git'  
4 ->   }  
5 ->   stage('SonarQube analysis') {  
6 ->     withSonarQubeEnv('sonarqube-test1') {  
7 ->       bat "C:/sonar-scanner/sonar-scanner-6.2.0.4584-windows-x64/cin/sonar-scanner.bat \  
8 ->         -D sonar.login=admin \  
9 ->         -D sonar.password=admin123 \  
10 ->         -D sonar.projectKey=sonarqube-test1 \  
11 ->         -D sonar.exclusions=**/resources/**/*/*.java \  
12 ->         -D sonar.host.url=http://localhost:9000/"  
13 ->     }  
14 ->   }  
15 -> }
```

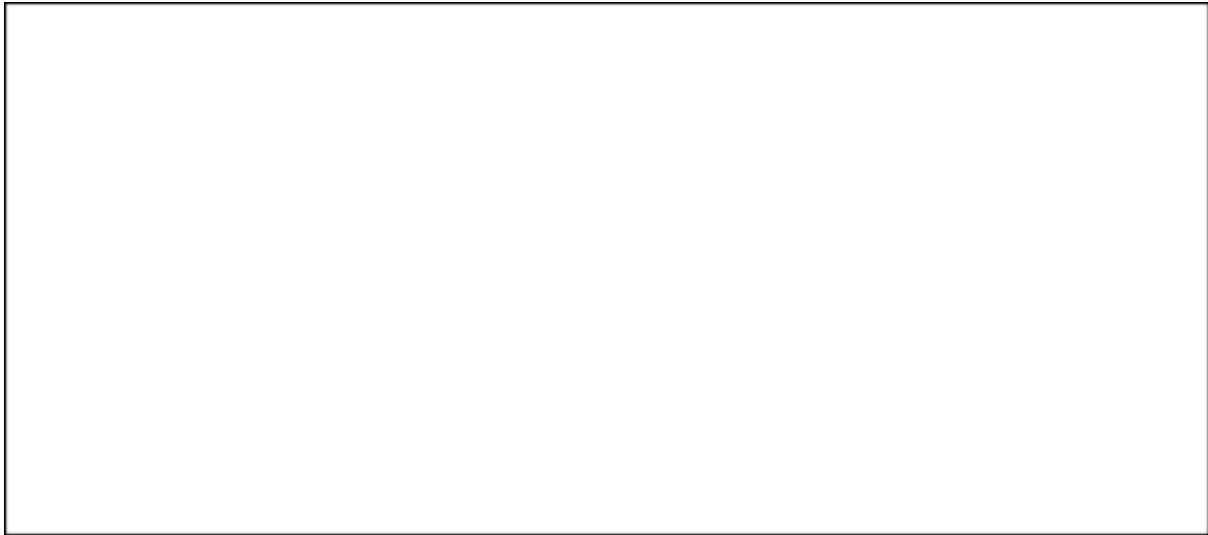
☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save

Apply

Save the changes and go to build now:



Dashboard > SonarQube Pipeline >

Status

</> Changes

> Build Now

⚙️ Configure

🗑️ Delete Pipeline

📦 Move

🔍 Full Stage View

🌐 SonarQube

📋 Stages

✎ Rename

❓ Pipeline Syntax

☁️ Build History trend

🔍 Filter...

### SonarQube Pipeline

**Stage View**

Average stage times:  
(Average full run time: ~34s)

	Cloning the GitHub Repo	SonarQube analysis
1 Sep 27 11:11	3s	30s
4 Sep 27 11:16	2s	133ms failed
3 Sep 27 11:11	9s	314ms failed

Logs

Add description

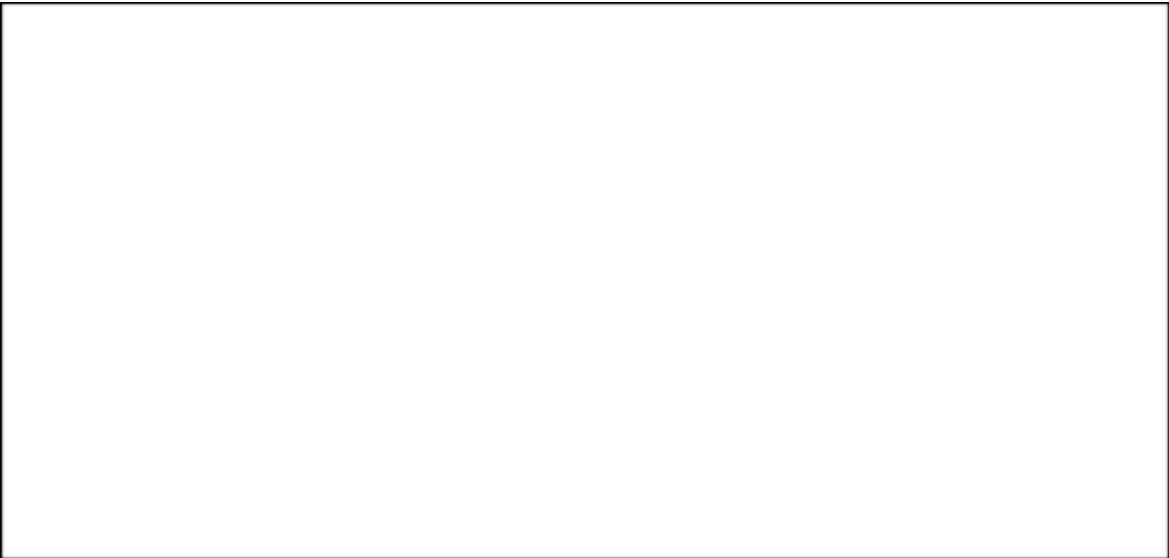
Disable Project

Console output:

## ✓ Console Output

```
Started by user jai navani
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\ProgramData\Jenkins\.jenkins\workspace\SonarQube Pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Cloning the GitHub Repo)
[Pipeline] git
The recommended git tool is: NONE
No credentials specified
> git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\.jenkins\workspace\SonarQube Pipeline\.git # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/shazforiot/MSBuild_firstproject.git # timeout=10
Fetching upstream changes from https://github.com/shazforiot/MSBuild_firstproject.git
> git.exe --version # timeout=10
> git --version # 'git version 2.45.2.windows.1'
> git.exe fetch --tags --force --progress -- https://github.com/shazforiot/MSBuild_firstproject.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision f2bc042c04c6e72427c380bcaee6d6fee7b49adf (refs/remotes/origin/master)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f f2bc042c04c6e72427c380bcaee6d6fee7b49adf # timeout=10
> git.exe branch -a -v --no-abbrev # timeout=10
> git.exe branch -D master # timeout=10
> git.exe checkout -b master f2bc042c04c6e72427c380bcaee6d6fee7b49adf # timeout=10
```

```
11:22:18.236 INFO Sensor C# File Caching Sensor [csharp]
11:22:18.237 WARN Incremental PR analysis: Could not determine common base path, cache will not be computed. Consider setting 'sonar.projectBaseDir'
property.
11:22:18.237 INFO Sensor C# File Caching Sensor [csharp] (done) | time=1ms
11:22:18.237 INFO Sensor Zero Coverage Sensor
11:22:18.251 INFO Sensor Zero Coverage Sensor (done) | time=14ms
11:22:18.256 INFO SCM Publisher SCM provider for this project is: git
11:22:18.257 INFO SCM Publisher 4 source files to be analyzed
11:22:18.789 INFO SCM Publisher 4/4 source files have been analyzed (done) | time=531ms
11:22:18.793 INFO CPD Executor Calculating CPD for 0 files
11:22:18.795 INFO CPD Executor CPD calculation finished (done) | time=0ms
11:22:18.810 INFO SCM revision ID 'f2bc042c04c6e72427c380bcaee6d6fee7b49adf'
11:22:19.074 INFO Analysis report generated in 134ms, dir size=201.0 kB
11:22:19.137 INFO Analysis report compressed in 45ms, zip size=22.5 kB
11:22:19.351 INFO Analysis report uploaded in 212ms
11:22:19.353 INFO ANALYSIS SUCCESSFUL, you can find the results at: http://localhost:9000/dashboard?id=sonarqube-test1
11:22:19.354 INFO Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
11:22:19.354 INFO More about the report processing at http://localhost:9000/api/ce/task?id=9/1ae2f2-4e0f-49a/-88c4-ad4abcceddf8
11:22:19.366 INFO Analysis total time: 24.819 s
11:22:19.368 INFO SonarScanner Engine completed successfully
11:22:19.454 INFO EXECUTION SUCCESS
11:22:19.455 INFO Total time: 29.696s
[Pipeline] }
[Pipeline] // withSonarQubeEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



sonarqube

[Projects](#)[Issues](#)[Rules](#)[Quality Profiles](#)[Quality Gates](#)[Administration](#)[More](#)

☆ sonarqube-test1 /

main

Overview

Issues

Security Hotspots

Measures

Code

Activity

Project Settings

Project Information

main

Version not provided

Set as homepage

✓

Quality Gate

Passed

Last analysis 12 minutes ago

⚠

The last analysis has warnings. [See details](#)

New Code

Overall Code

Security

0 Open Issues

0 H

0 M

0 L

A

Reliability

0 Open Issues

0 H

0 M

0 L

A

Maintainability

0 Open Issues

0 H

0 M

0 L

A

Accepted issues

0

Coverage

Duplications

0.0%